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LD 73: Digital Trunk Interface

Overlay program 73 allows the implementation and administration of the Digital Trunk Interface (DTI) and Primary Rate Interface (PRI) software and hardware.

Table of Contents

Section	Page
DDB: Digital data block	759
PRI2 data block (FEAT = LPTI)	760
DTI2 / JDMI data block (FEAT = LPTI)	761
DTI2 / PRI2 / JDMI data blocks (FEAT = SYTI)	762
Prompts and responses prior to Release 16 for DTI2 / PRI2 / JDMI data blocks	763
Table 7 Pad codes & corresponding dB values for PRI2/DTI2/JDMI (prior to release 16)	764
Table 8 Default values for Pad Category 1 (PDCA 1) (TYPE = DTI2/PRI2) (prior to release 16)	764
Table 9 Default values for Pad Category 16 (PDCA 16) (TYPE = JDMI) (prior to release 16)	765
Prompts and responses in Release 16 and later for DTI / PRI data blocks (with GPRI package 167)	766
Table 10 Pad codes & corresponding dB values for DTI/PRI/BRIT/BRIL/PRI2/DTI2/JDMI (release 16 and later)	768
Table 11 Default Pad Category 1 values (PDCA 1) (DTI/PRI with GPRI pkg 167) (release 16 and later)	769
Table 12 Default Pad Category 1 values (PDCA 1) (BRIL/BRIT/DTI2/PRI2) (release 16 and later)	770
Table 13 Default Pad Category 16 values (PDCA 16) (JDMI) (release 16 and later)	771
Table 14 Default pad values for TOLL prompt (release 16 and later)	772
Signaling category assignment and modification	773
Prompts and responses for ABCD signaling category	775
Table 15 Default values for Signaling Categories 1 & 16 (In/Out Calls)	780
Table 16 Default values for Signaling Categories 1 & 16 (Incoming Calls)	780
Table 17 Default values for Signaling Categories 1 & 16 (Outgoing Calls)	781

DDB: Digital data block

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	DDB	Type of data block = DDB (Digital data block)
CEQP	(NO) YES	Clock Controller Equipped
CLKN	1-9	Card number for Clock Controller (Option 11)
- PREF	0-159	Primary Reference
-- SREF	0-159	Secondary Reference
TRSH	0-15	Threshold set
RALM	1-(3)-128	Remote (yellow) Alarm clear threshold
BIPC	0-(2)-128	Bipolar violation Count threshold
LFAC	0-(3)-128	Loss of Frame Alignment Counter
BIPV	1-(3)-4 1-(2)-4	Bipolar Violation maintenance and out-of-service threshold
SRTK	1-(5)-24 1-(30)-3600	Slip Rate Tracking mode maintenance
SRNT	1-(15)-1024 1-(3)-1024	Slip Rate Non-Tracking
LFAL	1-(17)-10240	Loss of Frame Alignment maintenance and out-of-service thresholds
AUTO	(NO) YES	Automatic recovery for frame slippage
SRAR	(NO) YES	Slip Rate Automatic Recovery
SRGT	1-(15)-127	Slip Rate Guard Time in minutes
SRIM	(1)-127	Slip Rate Improvement Monitoring time in minutes
SRMM	1-(2)-127	Slip Rate Maintenance Maximum

PRI2 data block (FEAT = LPTI)

The following prompts and associated responses define the grade of service timers for the DTI card. Group I problems are treated individually. They are bipolar violations, bit error rate (frame alignment) problems and slips.

Group II problems are treated as a group. They are bit 3 of TS0 (far-end out-of-service), bit 6 of TS16 (far-end lost multiframe alignment), Alarm Indication Signal (AIS), loss of frame alignment and loss of multiframe alignment.

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	PRI2	Type of data block = PRI2
FEAT	LPTI	Feature = LPTI (Loop timer)
LOOP	loop	Loop number for PRI2
MFF	aaa	Multiframe Format (aaa = (AFF) or CRC)
ACRC	(NO) YES	Automatic reporting of CRC-4 error
ALRM	aaa	Default alarm handler selected (aaa = (REG) or ALT)
RAIE	(NO) YES	RAIE Group II alarm state enabled or disabled
SLP	mc mt oc ot	Slip count
NOOS	(NO) YES	The grade-of-service feat
BPV	1-(128) or (122)-255	Bipolar Violation thresholds
RATS	1-(10)-15	The number of consecutive seconds the firmware has to check and validate error rate condition
CRC	x...x	Cyclic Redundancy Check threshold [x...x = 1-(201) or (97)-255]
FAP	1-(28)-255 (1)-255	Frame Alignment thresholds
GP2	T2 mt dt ct ot	Group 2 error thresholds
MNG1	nnnM	Maintenance Guard time Group 1
NCG1	nnnM	No New Calls Guard time Group 1
OSG1	nnnM	Out-of-Service Guard time Group 1
MNG2	nnnS	Maintenance Guard time Group 2
NCG2	nnnS	No New Calls Guard time Group 2
OSG2	nnnS	Out-of-Service Guard time Group 2
PERS	0-(50)-254	Group 2 Persistence timer and clearance timer
CLEA	0-(100)-256	Clearance timer for Group II problems in 2 ms increments
OOSC	0-(5)-127	Out -of-Service Counter

DTI2 / JDML data block (FEAT = LPTI)

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	aaaa	Type of data block = DTI2 or JDML
FEAT	LPTI	Feature = LPTI (Loop timer)
LOOP	loop	Loop number for DTI2
CDTI2	(NO) YES	CDTI2/CSDTI2 Card
P DIGT (S)	abcd	Digit pulse timing from TDS (Bits P, X or U are selectable)
P METR (R)	abcd	Metering (Bits P, X or U are selectable)
- EDGE	x	Edge of pulse (0 or 1)
- TIME	40-(240)-480	Maximum time METR signal can be on
- MINP	(8)-256	Minimum Pulse length for a Meter Pulse
- PPM	(NO) YES	PPM Parameter Download required
- ITPP	(NO) YES	Italian PPM option allowed
-MINP	8-(72)-248	Minimum time a PPM pulse is active
-ITBP	8-(72)-248	Idle time between PPM pulses
SASU	0-8064	Seize Acknowledge Supervision period
MFAO	YES NO	Multiframe Alignment Option
SZNI	(NO) YES	PSTN incoming seizure during lockout of MFAS and far-end fault states allowed
LCLB	(NO) YES	Lockout Clear Back option for DID trunks
UCFS	xxxx	Unequipped Channel Fault Signal
TGLR	(NO) YES	Toggle Reserve bits in Frame 0
MFF	aaa	Multiframe Format (aaa = (AFF) or CRC)
CRC	NC mt dt ct ot	Cyclic Redundancy Check error counts
BPV	NB mt dt ct ot	Bipolar Violation error counts
FAP	NF mt dt ct ot	Frame Alignment Problem thresholds
SLP	NS mt dt ct ot	Slip count maintenance threshold
GP2	T2 mt dt ct ot	Group 2 error thresholds
FRFW	(NO) YES	DTI2 loop is equipped with special Firmware for France
CISFW	(NO) YES	Defines the CDTI2/CSDTI2 card's FW option to be used

DTI2 / PRI2 / JDMI data blocks (FEAT = SYTI)

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	aaaa	Type (aaaa = DTI2, PRI2, or JDMI)
FEAT	SYTI	Feature = SYTI (System timers)
MAND	0-(15)-1440	Maintenance Guard time
NCSD	0-(15)-1440 1S-59S	New Call Suppression Guard time
OSGD	0-(15)-1440	Out-of-Service Guard time in minutes
OOSC	0-(5)-127	Out-of-Service Counter
PERS	0-(100)-254	Persistence timer
DBNC	(10)-32	Debounce timer
CLKN	1-9	Card number for Clock Controller (Option 11)
PREF CK0	loop	Primary Reference DTI/PRI loop for Clock controller zero
SREF CK0	loop	Secondary Reference DTI/PRI loop for Clock controller zero
PREF CK1	loop	Primary Reference DTI/PRI loop for Clock controller one
SREF CK1	loop	Secondary Reference DTI/PRI loop for Clock controller one
CCGD	0-(15)-1440	Clock Controller free run Guard time
CCAR	0-(15)	Clock Controller Audit Rate
EFCS	(NO) YES	Enable Fast Clock Switching

Prompts and responses for setting pad values

Prompts and responses prior to Release 16 for DTI2 / PRI2 / JDMI data blocks

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	aaaa	Type of data block = DTI2, PRI2, or JDMI
FEAT	PAD	Pad Category
PDCA	1 - 16	Pad Category table. PDCA 1 and PDCA 16 are preconfigured. See the Note below for further details.
TNLS	(NO) YES	Terminal Number List
DFLT	1 - 16	Use default codes from this pad category table for the following prompts if <cr> is entered at the prompt

Note: For the following prompts, **x = Rx code (receive)** and **y = Tx code (transmit)**. You may assign receive and transmit dB values to the following prompts by entering a code which corresponds to a dB value. Code options and their corresponding dB values are listed in Table 7 on page 764. The codes listed in Table 7 apply for both Rx codes and Tx codes.

To find the default values for Pad Category 1 when TYPE = DTI2 or PRI2, refer to Table 8 on page 764. To find default values for Pad Category 16 when TYPE = JDMI, refer to Table 9 on page 765.

ONP	x y	On Premises Extension
OPX	x y	Off Premises Extension
DTT	x y	Digital TIE Trunks
DCO	x y	Digital COT, FEX, WAT, and DID trunks
NTC	x y	Non-Transmission Compensated (Analog TIE)
TRC	x y	Transmission Compensated (Analog TIE)
DTR	x	Pad value while DTR is connected (receive only)
VNL	x y	Via Net Loss (Analog TIE)
ACO	x y	Analog COT and WATS trunks
AFX	x y	Analog Foreign Exchange trunks
ADD	x y	Analog Direct Inward Dial trunks

Table 7

Pad codes & corresponding dB values for PRI2/DTI2/JDMI (prior to release 16)

Code	Value (dB)	Code	Value (dB)	Code	Value (dB)
0	-1.0	6	+0.6	11	+4.0
1	-2.0	7	+8.0	12	+3.0
2	-3.0	8	Idle	13	+2.0
3	12.0	9	+6.0	14	+1.0
4	-6.0	10	+5.0	15	0.0
5	+10.0				

Note 1: Positive dB represents loss and negative dB represents gain.

Note 2: Code 15, pad value 0, is equivalent to no pad. It is used for DTA (Data only) and VOD (Voice or Data) call types.

Table 8

Default values for Pad Category 1 (PDCA 1) (TYPE = DTI2/PRI2) (prior to release 16)

Connection type	Rx code	Rx PAD (dB)	Tx code	Rx PAD (dB)
ONP	2	-3.0	15	0.0
OPX	2	-3.0	15	0.0
DTT	15	0.0	15	0.0
DCO	15	0.0	15	0.0
NTC	11	+4.0	14	+1.0
TRC	11	+4.0	14	+1.0
DTR	2	-3.0		
VNL	11	+4.0	14	+1.0
ACO	11	+4.0	14	+1.0
AFX	11	+4.0	14	+1.0
ADD	11	+4.0	14	+1.0

Table 9**Default values for Pad Category 16 (PDCA 16) (TYPE = JDML) (prior to release 16)**

Connection type	Rx code	Rx PAD (dB)	Tx code	Rx PAD (dB)
ONP	0	-1.0	7	+8.0
OPX	2	-3.0	15	0.0
DTT	15	0.0	15	0.0
DCO	15	0.0	15	0.0
NTC	11	+4.0	14	+1.0
TRC	11	+4.0	14	+1.0
DTR	15	0.0	- - -	- - -
VNL	11	+4.0	14	+1.0
ACO	11	+4.0	14	+1.0
AFX	11	+4.0	14	+1.0
ADD	11	+4.0	14	+1.0

Prompts and responses in Release 16 and later for DTI / PRI data blocks (with GPRI package 167)

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	aaa	Type of data block = DTI or PRI
FEAT	PAD	Pad Category
PDCA	1-16	Pad Category table. PDCA 1 and PDCA 16 are preconfigured. See the Note below for further details.
TNLS	(NO) YES	Terminal Number List
DFLT	1-16	Use default codes from this pad category table for the following prompts if <cr> is entered at the prompt

Note: For the following prompts, **x = Rx code (receive)** and **y = Tx code (transmit)**. You may assign receive and transmit dB values to the following prompts by entering a code which corresponds to a dB value. Code options and their corresponding dB values are listed in Table 10 on page 768. The codes listed in Table 10 apply for both Rx codes and Tx codes.

To find the default values for Pad Category 1 when TYPE = DTI or PRI, refer to Table 11 on page 769. To find default values for Pad Category 1 when TYPE = BRIL, BRIT, DTI2, or PRI2, refer to Table 12 on page 770. To find default values for Pad Category 16 when TYPE = JDML, refer to Table 13 on page 771.

ONP	x y	On-Premises Extension
DSET	x y	Meridian Digital Set
OPX	x y	Off-Premises Extension
DTT	x y	Digital TIE Trunks
SDTT	x y	Satellite Digital TIE Trunks
DCO	x y	Digital COT, FEX, WAT, and DID trunks
DTO	x y	1.5 Mb/s DTI/PRI Digital TOLL Office trunks
VNL	x y	Via Net Loss (Analog TIE)
SATT	x y	Satellite Analog TIE Trunks
ACO	x y	Analog COT and WATS trunks
ATO	x y	Analog TOLL Office trunks
PRI	x y	1.5 Mb/s PRI/DTI trunk

PRI2	x y	2.0 Mb/s PRI/DTI trunk
XUT	x y	Extended Peripheral Equipment Universal Trunk
XEM	x y	Extended Peripheral Equipment E&M Trunk
BRIL	x y	Basic Rate Interface Line
BRIT	x y	Basic Rate Interface Trunk
MCM	x y	M1 CT2 mobility pad value
TOLT	x y	Toll call pad data on DT12 card
TOLL	x y	Toll call pad data on line card (Do not refer to Figure 10 for TOLL values. Refer instead to

Table 10

Pad codes & corresponding dB values for DTI/PRI/BRIT/BRIL/PRI2/DTI2/JDMI (release 16 and later)

Code	Value (dB)	Code	Value (dB)	Code	Value (dB)
0	0.0 †	9	+9.0	18	-4.0 †
1	+1.0 †	10	+10.0 †	19	-5.0
2	+2.0 †	11	+11.0	20	-6.0 †
3	+3.0 †	12	+12.0 †	21	-7.0
4	+4.0 †	13	+13.0	22	-8.0
5	+5.0 †	14	+14.0	23	-9.0
6	+6.0 †	15	-1.0 †	24	-10.0
7	+7.0	16	-2.0 †	25	Idle †
8	+8.0 †	17	-3.0 †	26	+0.6 †

Note 1: PRI/DTI pad category prompts require GPRI package 167.

Note 2: † Represents pad values supported by DTI2 for all systems except Option 11.

Note 3: Option 11 supports all pad values for DTI2.

Note 4: Positive dB represents loss and negative dB represents gain.

Note 5: Code 0, pad value 0.0, is equivalent to no pad. It is used for DTA (Data only) and VOD (Voice or Data) call types and supported by DTI2.

Note 6: “Idle” means that PCM signals are converted to silence.

Table 11
Default Pad Category 1 values (PDCA 1) (DTI/PRI with GPRI pkg 167) (release 16 and later)

Connection type	Rx code	Rx PAD (dB)	Tx code	Rx PAD (dB)
ONP	6	+6.0	0	0.0
DSET	6	+6.0	0	0.0
OPX	6	+6.0	0	0.0
DTT	0	0.0	0	0.0
SDTT	3	+3.0	0	0.0
DCO	3	+3.0	0	0.0
DTO	0	0.0	0	0.0
VNL	6	+6.0	0	0.0
SATT	6	+6.0	0	0.0
ACO	6	+6.0	0	0.0
ATO	6	+6.0	0	0.0
PRI	0	0.0	0	0.0
PRI2	0	0.0	0	0.0
XUT	6	+6.0	0	0.0
XEM	3	+3.0	0	0.0
BRIL	0	0.0	0	0.0
BRIT	0	0.0	0	0.0
MCM	0	0.0000	0	0.0

Table 12

Default Pad Category 1 values (PDCA 1) (BRIL/BRIT/DTI2/PRI2) (release 16 and later)

Connection type	Rx code	Rx PAD (dB)	Tx code	Rx PAD (dB)
ONP	17	-3.0	0	0.0
OPX	17	-3.0	0	0.0
DTT	0	0.0	0	0.0
DCO	0	0.0	0	0.0
NTC	4	+4.0	1	+1.0
TRC	4	+4.0	1	+1.0
DTR	17	-3.0		
VNL	4	+4.0	1	+1.0
ACO	4	+4.0	1	+1.0
AFX	4	+4.0	1	+1.0
ADD	4	+4.0	1	+1.0
PRI	0	0.0	0	0.0
DSET	6	+6.0	0	0.0
BRIL	0	0.0	0	0.0
BRIT	0	0.0	0	0.0
MCM	0	0.0	0	0.0
TOLT	0	0.0	0	0.0
TOLL	16	0.0	30	- 7.0

Table 13
Default Pad Category 16 values (PDCA 16) (JDMI) (release 16 and later)

Connection type	Rx code	Rx PAD (dB)	Tx code	Rx PAD (dB)
ONP	15	-1.0	8	+8.0
OPX	17	-3.0	0	0.0
DTT	0	0.0	0	0.0
DCO	0	0.0	0	0.0
NTC	4	+4.0	1	+1.0
TRC	4	+4.0	1	+1.0
DTR	0	0.0	- - -	- - -
VNL	4	+4.0	1	+1.0
ACO	4	+4.0	1	+1.0
AFX	4	+4.0	1	+1.0
ADD	4	+4.0	1	+1.0
PRI	0	0.0	0	0.0
DSET	6	+6.0	0	0.0
BRIL	0	0.0	0	0.0
BRIT	0	0.0	0	0.0
MCM	0	0.0	0	0.0
TOLT	0	0.0	0	0.0
TOLL	16	0.0	30	- 7.0

Table 14
Default pad values for TOLL prompt (release 16 and later)

Code	dB Value	Code	dB Value	Code	dB Value
0	>= +8.0	14	+1.0	28	-6.0
1	+7.5	15	+0.5	29	-6.5
2	+7.0	16	0.0	30	-7.0
3	+6.5	17	-0.5	31	-7.5
4	+6.0	18	-1.0	32	-8.0
5	+5.5	19	-1.5	33	-8.5
6	+5.0	20	-2.0	34	-9.0
7	+4.5	21	-2.5	35	-9.5
8	+4.0	22	-3.0	36	-10.0
9	+3.5	23	-3.5	37	-10.5
10	+3.0	24	-4.0	38	-11.0
11	+2.5	25	-4.5	39	<= -11.5
12	+2.0	26	-5.0		
13	+1.5	27	-5.5		

Signaling category assignment and modification

What can be entered for the abcd response?

Prompts which show the response abcd, such as IDLE (S), require a four field response to indicate the status of four bits: a, b, c and d. The abcd response represents a trunk supervisory message. The bit states within the message are determined by using the appropriate input. Allowable inputs for each bit are: 0, 1, C, P, U, X, N. These input options are explained as follows:

- 0 - Bit is a steady state 0 (LOW) e.g. 0000 bits abcd are all steady state 0.
- 1 - Bit is a steady state 1 (HIGH) e.g. 0101 bits b and d are steady state 1 while bits a and c are steady state 0.
- C - Bit is pulsed and present continuously (Continuous pulsing of two or more bits is not allowed.).
 - “C” can only be entered for signals that have “C” in front of them when the signal is prompted; the signals are: “C CLRB (S), C CLRB (R) and C SUPO (S) UNUSED”
 - “C” cannot be mixed with 0 or 1 or P in the ABCD pattern. Therefore, the entry must look like CXXX, XCXX, etc
 - “C” can only be entered once in the ABCD pattern
- C cannot be entered for the CLRB (R) or CLRB (S) prompts if the pulsed E&M package (232) PEMD is equippedP - Bit is pulsed. e.g. PC10 bit a is pulsed, bit b is pulsed and sent continuously, bit c is steady state 1 and bit d is steady state 0.
- U - Bit is a don't-care bit (for received signals only) e.g. U10U bits a and d are don't-care bits, bit b is steady state 1 and bit c is steady state 0.
- X - Bit is not to be changed (used in conjunction with Pulsed or Continuously pulsed bit) e.g. XPXX bits a, c and d are unchanged, bit b is set to steady state 1 and bit c is set to steady state 0.

Another input to the signal name prompt is allowed. The other allowable input is:

— N - The signal is not required.

How to tell if the signal is pulsing, pulsed or steady?

The signal type is identified by a single character followed by a blank space preceding the signal name. For example, the prompt E SEZ(R) indicates that the Seize signal may be either Pulsed or steady state. The signal type identifiers are:

- C - Continuous Pulsing, Pulsed or steady state
- E - Pulsed or steady state
- P - Pulsed (single pulse unless otherwise indicated)
- No preceding character indicates the signal is steady state only

Pulsed signals will output the TIME prompt. This prompt is described for each of the signals that may prompt it.

How to determine signal direction?

The direction of the signal is indicated by a single character in brackets at the end of the signal name:

- (R) - Indicates that the signal is to be received by the switch
- (S) - Indicates that the signal is to be sent by the switch

For example, E SEZ (R) indicates that the Seize signal may be either Pulsed or steady state and that the signal is to be received by the switch.

How to tell if the prompt incoming or outgoing, or both

ABCD prompts correspond to incoming calls, outgoing calls or both incoming and outgoing calls. Prompts IDLE (S) to P RRC correspond to incoming/outgoing calls. Prompts E SEZ (R) to P FRLS (R) correspond to incoming calls. Prompts E SEZ (S) to C SUPO (S) correspond to outgoing calls.

A note about JDMI

For Japan Digital Multiplex Interface (JDMI), the signal requires only a bit signaling. All four bits will be allowed to be programmed as the software uses all four bits for call processing. The JDMI hardware defaults the bcd bits to 101 for sending signaling changes. Therefore, if any changes are made to received signals, the bcd bits must be set to 101; otherwise, these signals will not be recognized.

Prompts and responses for ABCD signaling category

Prompt	Response	Comment
REQ	aaa	Request (aaa = CHG, END, NEW, OUT, or PRT)
TYPE	aaa	Type of data block
FEAT	ABCD	Feature = ABCD
SICA	2-16	Signaling Category
TNLS	(NO) YES	Terminal Number List
DFLT	(1)-16	Default signaling category to be used for Default values

Note: The following prompts have default values for Signalling Category 1 and 16 which may be found in Table 8 on page 764.

Prompts for Incoming/Outgoing Calls

IDLE (S)	abcd	Idle
IDLE (R)	abcd	Idle
FALT (S)	abcd	Fault (DTI out-of-service)
FALT (R)	abcd	Fault (DTI out-of-service)
P RRC (S)	abcd	Register Recall
- TIME	10-(100)-630	Time of RRC (S) in milliseconds
TIME	(0)-1920	Persistence Time required before signal is accepted

Prompts for Incoming Calls

SEZ (R)	abcd	Seize for voice or data calls from a non-SL-1
E SEZ (R)	abcd	Seize for voice or data calls from a non-SL-1

LD 73

- TIME	16-(56)-1000 16-(296)-1000	Minimum and maximum acceptable pulse duration
SEZD (R)	abcd	Seize for data calls between SL-1s
- SEZV (R)	abcd	Seize for voice calls
P CALL (R)	abcd	Signal sent during seize by an incoming CO trunk
- TIME	1-(2)-15 1-(8)-15	Pulse on time, pulse off time
SEZA (S)	abcd	Seize Acknowledgment
- TIME	50-80-90	Time delay prior to sending SEZA
PRCS (S)	abcd	PRCS
WNKS (S)	abcd	Wink Start
P WNKS (S)	abcd	Wink Start
- TIME	10-(220)-630	Time for P WNKS (S)
P DIGT (R)	abcd	Decadic pulses
NRCV (S)	abcd	Number Received
P EOSF (S)	abcd	End of Selection Free
- TIME	(100)-150	Time for EOSF (S)
- P EOSB (S)	abcd	End of Selection Busy
- - TIME	(100)-150	Time for EOSB (S)
P OPC (R)	abcd	Operator Calling
- TIME	64-(128)-192	Time of OPCA (R) pulse
- TIME	16-(96)-1000 16-(160)-1000	Minimum and maximum acceptable pulse duration
- REPT	(1)-5	Number of OPCA (R) pulses
CONN (S)	abcd	Connect
E CON (S)	abcd	Connect
- TIME	10-(150) 630	Time of pulse length in 10 ms increments
CONN (R)	abcd	Connect

P BURS (S)	abcd	Bring Up Receiver for L1 networking
P BURS (R)	abcd	Bring Up Receiver for L1 networking
- TIME	64-(128)-192	Time for BURS (R) pulse
CLRB (S)	abcd	Clear Back
C CLRB (S)	abcd	Clear Back
- TIME	10-(600)-2000	Time of pulse length in 10 ms increments
- P RCT (S)	abcd	Release Control
- - TIME	100-(150) 300	Time value is stored in 10 ms increments
- - P RCOD (S)	abcd	Release Control Originating party Disconnect
- - - TIME	150	Timer value in milliseconds is fixed
P OPRS (R)	abcd	Operator manual recall
- TIME	xxxx yyyy	Minimum and maximum time range for OPRS (R)
P NXFR (S)	abcd	Network Transfer
P ESNW (S)	abcd	ESN Wink
P CAS (S)	abcd	Centralized Attendant
CLRF (R)	abcd	Clear Forward
- SOS	abcd	Special Operator Signal
P BRLS (S)	abcd	Backward Release
- TIME	10-(600)-2000	Time of pulse length in 10 ms increments
P FRLS (R)	abcd	Forward Release
- TIME	16-(296)-2000	16-(960)-2000
		Minimum and maximum acceptable pulse duration

Prompts for Outgoing Calls

SEZ (S)	abcd	Seize for voice or data calls to a non-SL-1
E SEZ (S)	abcd	Seize for voice or data calls to a non-SL-1
- TIME	10-(150)-630	Time of pulse length in 10 ms increments
SEZD (S)	abcd	Seize for Data calls
- SEZV (S)	abcd	Seize for Voice calls

LD 73

SEZA (R)	abcd	Seize Acknowledgment
- TIME	xxx	Delay time for the SEZA signal (xxx = 50, 80, 90, (150), or 800)
WNKS (R)	abcd	Wink Start
- TIME	20-(140)-500 20-(290)-500	Minimum and maximum length of WNKS (R) pulse
P WNKS (R)	abcd	Wink Start
- TIME	16-(136)-504 16-(288)-504	Minimum and maximum length of P WNKS (R) pulse
P EOS (R)	abcd	End of Selection
- TIME	(64)-320 64-(256)-320	Length of EOS (R) pulse
CONN (S)	abcd	Connect
CONN (R)	abcd	Connect
E CONN (R)	abcd	Connect
- TIME	16-(56)-1000 16-(296)-1000	Time of pulse length in 8 ms increments
P OPRC (R)	abcd	Operator Recall for special services
P BURS (S)	abcd	Bring Up Receiver for L1 networking
P BURS (R)	abcd	Bring Up Receiver for L1 networking
- TIME	64-(128)-192	Time for BURS (R) pulse
CLRB (R)	abcd	Clear Back
C CLRB (R)	abcd	Clear Back
- TIME	16-(296)-2000 16-(960)-2000	Time of pulse length in 8 ms increments
- P RCTL (R)	abcd	Release Control
- - TIME	96-(128)-320 96-(256)-320	Time stored in 8 ms increments

P NXFR (R)	abcd	Network Transfer
P ESNW (R)	abcd	ESN Wink
P CAS (R)	abcd	Centralized Attendant Service
CLRF (S)	abcd	Clear Forward
- TIME	(0)-800	Time in milliseconds
- SOS	abcd	Special Operator Signal
P FRLS (S)	abcd	Forward Release
- TIME	10-(600)-2000	Only prompted for pulsed signals
P BRLS (R)	abcd	Backward Release
- TIME	16-(296)-2000	16-(960)-2000
		Time of pulse length in 8 ms increments
C SUPO (S)	abcd	Complex Supervision to Operator Signal used for KD3 signaling. Note that the input for a must be C.

Table 15
Default values for Signaling Categories 1 & 16 (In/Out Calls)

In/Out Calls	SICA 1	SICA 16
IDLE (S)	1001	1101
IDLE (R)	1001	1101
FALT (S)	1101	0101
FALT (R)	1101	0101
TIME	0	0
P RRC (S)	UNUSED	UNUSED

Table 16
Default values for Signaling Categories 1 & 16 (Incoming Calls)

Incoming Calls	SICA 1	SICA 16	Incoming Calls	SICA 1	SICA 16
E SEZ (R)	0001	0101	CONN (R)	0001	0101
SEZD (R)	UNUSED	UNUSED	P BURS (S)	UNUSED	UNUSED
SEZV (R)	UNUSED	UNUSED	P BURS (R)	UNUSED	UNUSED
P CALL (R)	UNUSED	UNUSED	C CLRB (S)	1101	1101
SEZA (S)	1101	UNUSED	P RCTL (S)	UNUSED	UNUSED
TIME	150		P RCOD (S)	UNUSED	UNUSED
PRCS (S)	UNUSED	UNUSED	P OPRS (R)	UNUSED	UNUSED
P WNKS (S)	UNUSED	PXXX	P NXFR (S)	UNUSED	UNUSED
TIME		220	P ESNW (S)	UNUSED	UNUSED
P DIGT (R)	UNUSED	PXXX	P CAS (S)	UNUSED	UNUSED
NRCV (S)	UNUSED	UNUSED	CLRF (R)	UNUSED	UNUSED
P EOSF (S)	UNUSED	UNUSED	SOS (R)	UNUSED	UNUSED
P EOSB (S)	UNUSED	UNUSED	P BRLS (S)	UNUSED	UNUSED
P OPCA (R)	UNUSED	UNUSED	P FRLS (R)	UNUSED	UNUSED
E CONN (S)	0101	0101			

Table 17
Default values for Signaling Categories 1 & 16 (Outgoing Calls)

Outgoing Calls	SICA 1	SICA 16
E SEZ (S)	0001	0101
SEZD (S)	UNUSED	UNUSED
SEZV (S)	UNUSED	UNUSED
SEZA (R)	1101	UNUSED
P WNKS (R)	UNUSED	PXXX
TIME		136 288
P EOS (R)	UNUSED	UNUSED
CONN (S)	0001	0101
E CONN (R)	0101	0101
P OPRC (R)	UNUSED	UNUSED
P BURS (S)	UNUSED	UNUSED
P BURS (R)	UNUSED	UNUSED
C CLRB (R)	1101	1101
P RCTL (R)	UNUSED	UNUSED
P NXFR (R)	UNUSED	UNUSED
P ESNW (R)	UNUSED	UNUSED
P CAS (R)	UNUSED	UNUSED
CLRF (S)	UNUSED	UNUSED
SOS (R)	UNUSED	UNUSED
P FRLS (S)	UNUSED	UNUSED
P BRLS (R)	UNUSED	UNUSED

Alphabetical list of prompts

Prompt	Response	Comment	Pack/Rel
ACO	x y <cr>	Analog COT and WATS trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	dti/pa-14
ACRC	(NO) YES	No reporting of CRC-4 error Automatic reporting of CRC-4 error during transmission ACRC is only printed for PRI2 loops and if MFF = CRC.	euro-20
ADD	x y <cr>	Analog Direct Inward Dial trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	dti/pa-14
AFX	x y <cr>	Analog Foreign Exchange trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	dti/pa-14
ALRM	(REG) ALT	Regular firmware alarm handler (RAI transmission is controlled by software) Alternate firmware alarm handles (Immediate transmission of RAI by firmware) An error rate less than 10 is reported as a Group 1 alarm message.	dti/pa-14
ATO	x y <cr>	Analog Toll Office trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18
AUTO	(NO) YES	Automatic Recovery for Frame Slippage (Release 14 and earlier only)	dti/pa-14

Prompt	Response	Comment	Pack/Rel
BIPC	0-(2)-128	Bipolar violation Count threshold This is the maximum number of times a DTI/PRI loop can be taken out of service in 24 hours. If this threshold is reached the DTI/PRI must be restored to service manually. Refer to the <i>Digital Trunk Interface maintenance</i> NTP or the <i>PRI and DCHI maintenance</i> NTP for details. If "0" is entered, there is no limit on number of times trunks can be taken out and automatically restored to service. The method of bit rate monitoring depends on the loop configuration: 1. For DTI mode: bipolar violation threshold 2. For PRI mode with D2, D3, or D4 framing format: bipolar violation threshold 3. For PRI mode with Extended Superframe Format (ESF): Cyclic Redundancy Check (CRC) threshold	dti/pri-14
BIPV	1-(3)-4 1-(2)-4	Bipolar Violation maintenance and Out-of-Service threshold The BIPV values determine the sensitivity of the loop to errors, where BIPV = 1 is the least tolerant to errors, and BIPV = 4 is the most tolerant. The maintenance threshold must be greater than the out-of-service threshold. The method of bit rate monitoring depends on the loop configuration: 1. For DTI mode: bipolar violation thresholds 2. For PRI mode with D2, D3, or D4 framing format: bipolar violation thresholds 3. For PRI mode with Extended Superframe Format (ESF): Cyclic Redundancy Check (CRC) thresholds	dti/pri-14

Prompt	Response	Comment	Pack/Rel
BPV	1-(128)-255	1-(122)-255 Bipolar Violation Maintenance and Out-of-Service thresholds. The values entered are multiplied by 16 to obtain the actual count, giving an actual range of 16-4080.	dti/pra-14
BPV	NB mt dt ct ot	Bipolar Violation error counts. Where: • NB = Error count values are in the range 1-(205)-255 • mt = Maintenance threshold time (MNT) (default = 10S) • dt = No new data calls threshold time (NNDC) (default = 3S) • ct = No new calls threshold time (NNC) (default = 3S) • ot = Out-of-service threshold time (OOS) (default = 1S) Response options for mt, dt, ct, ot: Threshold time entries end in one of the following letters: T, S, M, H. These letters indicate the time increment to be used. Reponse options for mt, dt, ct and ot are as follows: • 20T–5000T = 20 millisecond increments • 1S–240S = 1 second increments • 1M–240M = 1 minute increments • 1H–24H = 1 hour increments Important note: The following requirements must be met: $mt = >dt = >ct = >ot$	dti/pra-14
BRIL	x y	Basic Rate Interface Line. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	gpri-18
	<cr>	Initial values	

Prompt	Response	Comment	Pack/Rel
BRIT	x y <cr>	Basic Rate Interface Trunk. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18
C CLRB (R)	abcd N	Clear Back. For information about your response options, refer to "Signaling category assignment and modification" on page 773. If C CLRB (R) not required, when IDLE would be used	abcd-18
C CLRB (S)	abcd N	Clear Back. For information about your response options, refer to "Signaling category assignment and modification" on page 773. If Clear Back is configured as continuous pulsing then a 100 ms pulse is sent very 333 ms. If CLRB (S) not required (IDLE signal is used)	abcd-18
CCAR	0-(15)	Clock Controller Audit Rate The time, in minutes, between normal CC audits. Only programmable on units equipped with 2.0 Mb/s DTI/PRI. Before programming clock controller references, the QPC775 clock controller pack(s) must be plugged in, and the switches on the system's QPC441 3 Port Extender appropriately set. Unless this is done, the PREF and SREF prompts are not given.	supp-15
CCGD	0-(15)-1440	Clock Controller free run Guard time (in minutes)	supp-15
CDTI2	(NO) YES	No CDTI2/CSDTI2 Card CDTI2/CSDTI2 Card	dti/pri-14
CEQP	(NO) YES	Clock Controller Equipped Prompted only for SL-1 M, MS or S.	dti/pri-14

Prompt	Response	Comment	Pack/Rel
CISFW		CISFW defines the CDTI2/CSDTI2 card's FW option to be used.	cist-21
	YES	YES means that this loop is CIS DTI trunk. NO means that the given loop must be considered as DTI2. Prompted with CIST package 221 and CDTI2 = YES.	
	(NO)	Non CIS DTI2 signalling protocols on the NTCG01AA/NTCG02AA or NTCG01AB/NTCG02AB card.	cismfs-23
	DP	Dial Pulse CIS signalling protocol on the NTCG01AA/NTCG02AA card.	
	MFS	Both the CIS Dial Pulse and the CIS MFS signalling protocols on the NTCG01AB/NTCG02AB. Minimum card vintages are specified.	
CLEA	0-(100)-256	Clearance timer for Group II problems in 2 millisecond increments. CLEA is only printed for PRI2 loops.	euro-20
CLKN	1-9 <cr> X	Card number for Clock Controller (Option 11) No change for defaults To remove clock controller data	supp-18
CLRB (R)	abcd	Clear Back. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If CLRB (R) not required, when IDLE would be used	
CLRB (S)	abcd	Clear Back. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If CLRB (S) not required (IDLE signal is used)	
CLRF (R)	abcd	Clear Forward. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-18
	N	If CLRF (R) not required	
CLRF (S)	abcd	Clear Forward. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-18
	N	If CLRF (S) not required	

Prompt	Response	Comment	Pack/Rel
CONN (R)	abcd	Connect. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
CONN (S)	abcd	Connect. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
CRC	1-(201)-255	1-(97)-255 Cyclic Redundancy Check threshold	pri2-14
CRC	NC mt dt ct ot	Cyclic Redundancy Check error counts. Where: • NC = Error count values are in the range 1 - 255 - error count value • mt = Maintenance threshold time (MNT) (default = 10S) • dt = No new data calls threshold time (NNDC) (default = 3S) • ct = No new calls threshold time (NNC) (default = 3S) • ot = Out-of-service threshold time (OOS) (default = 1S) Response options for mt, dt, ct, ot: Threshold time entries end in one of the following letters: T, S, M, H. These letters indicate the time increment to be used. Response options for mt, dt, ct and ot are as follows: • 20T–5000T = 20 millisecond increments • 1S–240S = 1 second increments • 1M–240M = 1 minute increments • 1H–24H = 1 hour increments Important note: The following requirements must be met: mt = >dt = >ct = >ot	pri2-14

LD 73

Prompt	Response	Comment	Pack/Rel
C SUPO(S)	abcd	Complex Supervision to Operator signal used for KD3 signalling calls to Special Services with Hold. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	kd3-20
	N	Note that the input for the a field must be C. If SUPO not required	
DBNC	(10)-32	Debounce timer (in milliseconds) For DTI2 only.	pedm-18
DCO	x y	Digital COT, FEX, WAT, and DID trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	dti/pa-14
	<cr>	Initial values	
DFLT	(1)-16	Default signaling category to be used for default values. When REQ = NEW, default is SICA 1 for DTI2 and SICA 16 for JDMI. Table 8 on page 764 shows the default values for both Signaling Categories 1 & 16.	dti/pa-14
	<cr>	A carriage return configures default values, according to your configuration: DTI2/PRI2 prior to Release 16 - default pad codes from Table 8 on page 764. (PDCA 1) JDMI prior to Release 16 - default pad codes from Table 9 on page 765. (PDCA 16) DTI/PRI Release 16 and later - default pad codes from Table 11 on page 769. (PDCA 1). Must be equipped with GPRI package 167. BRIL/BRIT/DTI2/PRI2 Release 16 and later - default pad codes from Table 12 on page 769. (PDCA 1) JDMI Release 16 and later - default pad codes from Table 13 on page 772. (PDCA 16)	

Prompt	Response	Comment	Pack/Rel
DSET	x y <cr>	Meridian Digital Set. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18
DTO	x y <cr>	1.5 Mb/s DTI/PRI Digital TOLL Office trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18
DTR	x <cr>	Pad value while DTR is connected (receive only). Where x = Rx code (receive). Response range for x is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values DTR is prompted prior to release 16.	dti/pri-14
DTT	x y <cr>	Digital TIE Trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18
E CONN (R)	abcd	Connect. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
E CONN (S)	abcd	Connect. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
E SEZ (R)	abcd	Seize for voice or data calls to a non-SL-1. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Prompted in Release 18 and later	abcd-18

LD 73

Prompt	Response	Comment	Pack/Rel
E SEZ (S)	abcd	Seize for voice or data calls to a non-SL-1. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Prompted in Release 18 and later.	abcd-18
EDGE	0 1	Edge of pulse PPM bit counted when changed from 1 to 0 PPM bit counted when changed from 0 to 1	dti/pr-14
EFCS	(NO) YES	Enable Fast Clock Switching EREF option in LD 60 must be chosen to enable this prompt.	dti/pr-18
FALT (R)	abcd N	Fault (DTI out-of-service). For information about your response options, refer to "Signaling category assignment and modification" on page 773. If FALT not required	abcd-14
FALT (S)	abcd N	Fault (DTI out-of-service). For information about your response options, refer to "Signaling category assignment and modification" on page 773. If FALT not required	abcd-14
FAP	1-(28)-255 (1)-255	Frame Alignment thresholds	dti/pr-14
FAP	NF mt dt ct ot	Frame Alignment Problem thresholds Where: - NF = Error count values are in the range: 1-(32)-255 - mt = Maintenance threshold time (MNT) (default = 4S) - dt = No new data calls threshold time (NNDC) (default = 1S) - ct = No new calls threshold time (NNC) (default = 1S) - ot = Out-of-service threshold time (OOS) (default = 100T)	dti/pr-14

Prompt	Response	Comment	Pack/Rel
		Response options for mt, dt, ct, ot: Threshold time entries end in one of the following letters: T, S, M, H. These letters indicate the time increment to be used. Reponse options for mt, dt, ct and ot are as follows: • 20T–5000T = 20 millisecond increments • 1S–240S = 1 second increments • 1M–240M = 1 minute increments • 1H–24H = 1 hour increments Important note: The following requirements must be met: mt = >dt = >ct = >ot	
FEAT		Feature	dti/pr-14
	ABCD	ABCD bit signaling category Valid response when TYPE = DTI2 or JDMI. Refer to NTP 553-2911-200 for default ABCD table with suggested values.	
	PAD	Pad category Valid response for all types. This prompt is not applicable for DPNSS and DASS2 applications. For DPNSS, the pad values are automatically set to zero (0) for both transmit and receive. For DASS2, the loss pad values are set to zero (0) for transmit and four (4) for receive. If TYPE = BRIL or BRIT, then FEAT = PAD is the only response allowed.	
	LPTI	Loop Timers Valid response when TYPE = DTI2, JDMI or PRI2.	
	SYTI	System Timers and counter (only one set per system) Valid response when TYPE = DTI2, JDMI or PRI2.	
FRFW	(NO) YES	This DTI2 loop is (is not) equipped with special Firmware for France.	dti/pr-18

Prompt	Response	Comment	Pack/Rel
GP2	T2 mt dt ct ot	Group 2 error thresholds Where: • T2 = Error count values in range: 1-(20)-255. The T2 entry defines the maximum time that can occur before software checks the associated thresholds of 120 to 32,640 msec and rounds them to the closest multiple of 128 msec. • mt = Maintenance threshold time (MNT) (default = 100S) • dt = No new data calls threshold time (NNDC) (default = 12S) • ct = No new calls threshold time (NNC) (default = 12S) • ot = Out-of-service threshold time (OOS) (default = 4S) Response options for mt, dt, ct, ot: Threshold time entries end in one of the following letters: T, S, M, H. These letters indicate the time increment to be used. Response options for mt, dt, ct and ot are as follows: • 20T–5000T = 20 millisecond increments • 1S–240S = 1 second increments • 1M–240M = 1 minute increments • 1H–24H = 1 hour increments Important note: The following requirements must be met: $mt = >dt = >ct = >ot$	dti/prs-14
IDLE (R)	abcd	Idle. For information about your response options, refer to “Signaling category assignment and modification” on page 773.	abcd-14
IDLE (S)	abcd	Idle. For information about your response options, refer to “Signaling category assignment and modification” on page 773.	abcd-14

Prompt	Response	Comment	Pack/Rel
ITBP	8-(72)-248	Idle Time between PPM pulses in milliseconds	kd3-20
ITPP	(NO) YES	Italian PPM option denied Italian PPM option allowed	kd3-20
LCLB	(NO) YES	Lockout Clear Back option for DID trunks	
LFAC	0-(3)-128	Loss-of-Frame-Alignment Counter This is the maximum number of times a DTI/PRI loop can be taken out-of-service in 24 hours. If this threshold is reached the DTI/PRI must be restored to service manually. If "0" is entered, there is no limit on number of times that trunks can be taken out and automatically restored to service.	dti/pri-14
LFAL	1-(17)-10240	1-(511)-10240 Loss-of-Frame-Alignment maintenance and out-of-service thresholds for a 24 hour period The maintenance threshold must be greater than the out-of-service threshold.	dti/pri-14
LOOP	loop card	PRI2 Loop number PRI2 or DTI2 card slot for Option 11 only	dti/pri-14
LOOP	loop	DTI Loop number Must be defined in LD 17.	dti/pri-14
MAND	0-(15)-1440	Maintenance guard time (in minutes). For DTI2 only.	dti2-14
MCM	x y <cr>	M1 CT2 Mobility Pad value. . Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	mcmo-20

LD 73

Prompt	Response	Comment	Pack/Rel
MFAO	YES	Multiframe Alignment Option DTI card will set bit 3 of timeslot 0 if loss of Multiframe Alignment Signal (MFAS) occurs (JDMI default)	dti/pra
	NO	DTI card will not set bit 3 of timeslot 0 if loss of Multiframe Alignment Signal (MFAS) occurs (DTI2 default)	
	<cr>	No change is required.	
MFF		Multiframe Format The prompt appears only if CDTI2 = YES. CRC4 or Alternate Frame Format may be chosen. In the previous design, this prompt was issued for SDC2 (Option 11 DTI2) loops.	dti/pra-14
	(AFF) CRC	Alternative Frame Format Cyclic Redundancy Check (CRC 4). CRC is prompted for Option 11. For non-Option 11, only AFF is supported.	
MINP	8-(72)-248	Idle time between PPM pulses (in milliseconds)	kd3-20
MNG1	nnnM	Maintenance Guard time Group 1, where nnn = 1-(15)-240. Default = 15M.	dti/pra-14
MNG2	nnnM	Out-of-Service Guard time Group 1, where nnn = 1-(15)-240. Default = 15M.	dti/pra-14
NCG1	nnnM	No New Calls Guard time Group 1, where nnn = 1-(15)-240. Default = 15M.	dti/pra-14
NCG2	nnnS	No New Calls Guard time Group 2, where nnn = 1-(15)-240. Default = 15S.	dti/pra-14
NCSD	0-(15)-1440	1S-59S New Call Suppression Guard time in minutes and seconds. For DTI2 only.	dti2-14
NOOS	(NO) YES	The grade of service feat Enable current grade of service feat Alternate grade of service feat	dti/pra-18

Prompt	Response	Comment	Pack/Rel
NRCV (S)	abcd	Number Received. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If NRCV (S) not required	
NTC	x y	Non-Transmission Compensated (Analog TIE). Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	dti/pr-14
	<cr>	Initial values	
ONP	x y	On-Premises extension. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	dti/pr-14
	<cr>	Initial values	
OOSC	0-(5)-127	Out-of-Service Counter (Counts out-of-service occurrences since midnight) (DTI disabled) For DTI2 only.	dti2-14
OPX	x y	Off-Premises Extension. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	dti/pr-14
	<cr>	Initial values	
OSG1	nnnM	Out-of-Service Guard time Group 1, where nnn = 1-(15)-240.	dti2-14
OSG2	nnnS	Out-of-Service Guard time Group 2, where nnn = 1-(15)-240. Default = 15S.	dti2-14
OSGD	0-(15)-1440	Out-of-Service Guard time (in minutes). For DTI2 only.	dti2-14
P BRLS (R)	abcd	Backward Release. For information about your response options, refer to "Signaling category assignment and modification" on page 773. This signal is mutually exclusive with the P RCTL (R) signal.	abcd-18
	N	If P BRLS (R) not required	

LD 73

Prompt	Response	Comment	Pack/Rel
P BRLS (S)	abcd	Backward Release. For information about your response options, refer to "Signaling category assignment and modification" on page 773. This signal is mutually exclusive with P RCTL (S) and RCOD (S) signals.	abcd-18
	N	If P BRLS (S) not required	
P BURS (R)	abcd	Bring Up Receiver for L1 networking. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If BURS (R) not required	
P BURS (S)	abcd	Bring Up Receiver for L1 networking. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Uses switchhook flash timer for pulse duration time.	abcd-14
	N	If BURS (S) not required	
P CALL (R)	abcd	Signal sent during seize by an incoming CO trunk. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
P CAS (R)	abcd	Centralized Attendant Service (DTI2 only). For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If CAS (R) not required	
P CAS (S)	abcd	Centralized Attendant. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Pulse time not variable. Prompted for DTI2 only.	abcd-14
	N	If CAS (S) not required	
P DIGT (R)	abcd	Decadic pulses. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If DIGT (R) not required	

Prompt	Response	Comment	Pack/Rel
P DIGT (S)	abcd	Digit pulse timing from TDS (Bits P, X or U). For information about your response options, refer to "Signaling category assignment and modification" on page 773. JDMI default = PXXX	abcd-14
	N	If DIGT (S) signal not required	
P EOS (R)	abcd	End of Selection. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If EOS (R) not required	
P EOSB (S)	abcd	End of Selection Busy. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If EOSB (S) not required	
P EOSF (S)	abcd	End Of Selection Free. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If EOSF (S) not required	
P ESNW (R)	abcd	ESN Wink. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If ESNW (R) not required	
P ESNW (S)	abcd	ESN Wink. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Pulse time not variable.	abcd-14
	N	If ESNW (S) not required	
P FRLS (R)	abcd	Forward Release. For information about your response options, refer to "Signaling category assignment and modification" on page 773. This signal is mutually exclusive with CLRf (R) the signal.	abcd-18
	N	If P FRLS (R) not required	

LD 73

Prompt	Response	Comment	Pack/Rel
P FRLS (S)	abcd	Forward Release. For information about your response options, refer to "Signaling category assignment and modification" on page 773. This signal is mutually exclusive with the CLRf (S) signal.	abcd-18
	N	If P FRLS (S) not required	
P METR (R)	abcd	ABCD bits value for received metering pulses. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Bits P, X or U are selectable. Only two P bits may be selected. P METR (R) is prompted only when COT and DID trunks are equipped. Periodic Pulse Metering (PPM) package 101 is required.	ppm-14
	N	If METR (R) signal not required N must be selected when either a CDTI2 or a CSDTI2 cards is equipped. These cards do not support PPM.	
P NXFR (R)	abcd	Network Transfer. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If not required	
P NXFR (S)	abcd	Network Transfer. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Pulse time not variable.	abcd-14
	N	If NXFR (S) not required	
P OPCA (R)	abcd	Operator Calling. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If OPCA (R) not required	
P OPRC (R)	abcd	Operator Recall for special services. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Minimum three pulses of 160 milliseconds each.	abcd-14
	N	If OPRC (R) not required	

Prompt	Response	Comment	Pack/Rel
P OPRS (R)	abcd	Operator manual recall. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If OPRS (R) not required	
P RCOD (S)	abcd	Release Control Originating party Disconnect. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-15
	N	This signal is another pulsed SL-1 signal sent on incoming trunks when the originating party disconnects first. If RCOD (S) not required	
P RCTL (R)	abcd	Release Control. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If RCTL (R) not required	
P RCTL (S)	abcd	Release Control. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If RCTL (S) not required Prompted when CLRB is unused or is defined the same as IDLE.	
P RRC (S)	abcd	Register Recall (activated by Malicious Call Trace). For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If RRC(S) not required	
P WNKS (R)	abcd	Wink Start. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-18
	N	If P WNKS (R) not required	
P WNKS (S)	abcd	Wink Start (corresponds to a pulsed seize. For information about your response options, refer to "Signaling category assignment and modification" on page 773. acknowledgment).	abcd-18
	N	If P WNKS (S) not required P WNKS (S) is prompted in Release 18 and later when SEZA (S) is not required.	

Page 800 of 1004 Digital Trunk Interface

553-3001-311 Standard 4.00 October 1997

Prompt	Response	Comment	Pack/Rel
		The loop or card must already be defined in LD 17 (prompt DLOP). Use <cr> for free-running mode. If <cr> is used, you are not prompted for the Secondary Reference (SREF). Precede with X to remove	
PREF CK0	loop	Primary Reference DTI/PRI loop for Clock controller zero (non-Option 11). The clock controller will derive its primary clock pulses from the loop selected here.	dti/pri-14
	card	Primary Reference card for Clock controller zero (Option 11) If a BRI trunk (BRIT) is the reference source then the SILC must have DSL 0 defined as a trunk and CLOK = YES in LD 27.	
	<cr>	Primary Reference remains at current setting	
	X	Primary Reference reverts to the free-run mode	
PREF CK1	loop	Primary Reference DTI/PRI loop for Clock controller one. The response is the loop from which the clock controller will be deriving its primary clock pulses. (non-Option 11)	dti/pri-14
	<cr>	Primary Reference remains at current setting	
	X	Primary Reference reverts to the free-run mode	
PRI	x y	1.5 Mb/s PRI/DTI trunk. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	gpri-18
	<cr>	Initial values	
PRI2	x y	2.0 Mb/s PRI/DTI trunk. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	gpri-18
	<cr>	Initial values	

LD 73

Prompt	Response	Comment	Pack/Rel
RAIE	(NO) YES	Disable reporting of RAIE Group II alarm state with continuous CRC error information reporting Enable reporting of RAIE Group II alarm state with continuous CRC error information reporting	euro-20
RALM	1-(3)-128	Remote (yellow) Alarm clear threshold This is the number of "remote alarm clear" signals received in 24 hours. If the threshold is reached the DTI/PRI must be restored to service manually.	dti/pri-14
RATS	1-(10)-15	The number of consecutive seconds the firmware has to check and validate error rate condition.	dti/pri-18
REPT	(1)-5	Number of OPCA (R) pulses	dti/pri-14
REQ	CHG END NEW OUT PRT	Request Change existing data block Exit Overlay program Create a new data block Remove data block Print the specified data block	dti/pri-14
SASU	0-8064 0-32256	Seize Acknowledge Supervision period (in milliseconds) (Release 17 and earlier) Seize Acknowledge Supervision period (in milliseconds) (Release 18 and later) DTI2 default = 1920; JDMI default = 4992	sasu-18
SATT	x y <cr>	Satellite Analog TIE Trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18
SDTT	x y <cr>	Satellite Digital TIE Trunks. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes. Initial values	gpri-18

Prompt	Response	Comment	Pack/Rel
SEZ (R)	abcd	Seize for voice or data calls from a non-SL-1. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Prompted in Release 17 and earlier.	abcd-14
SEZ (S)	abcd	Seize for voice or data calls to a non-SL-1. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Prompted in Release 17 and earlier.	abcd-14
SEZA (R)	abcd	Seize Acknowledgment. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If SEZA (R) not required	
SEZA (S)	abcd	Seize Acknowledgment. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If SEZA (S) not required	
SEZD (R)	abcd	Seize for voice or data calls from a non-SL-1. For information about your response options, refer to "Signaling category assignment and modification" on page 773. Prompted in Release 18 and later.	abcd-18
SEZD (R)	abcd	Seize for data calls between SL-1s. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-18
	N	If SEZD (R) signal not required	
SEZD (S)	abcd	Seize for data calls (only recommended for SL-1 to SL-1 applications). For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If SEZD (S) not required	
SEZV (R)	abcd	Seize for voice calls. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If SEZV (R) signals not required	

Prompt	Response	Comment	Pack/Rel
SEZV (S)	abcd	Seize for voice calls (only recommended for SL-1 to SL-1 applications). For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If SEZV (S) not required	
SICA	2-16 1 <cr>	Signaling Category If REQ = PRT, then 1 must be input to print default table If REQ = PRT, all signaling tables are printed	abcd-14
SLP	mc mt oc ot	Slip count. Where: • mc = Maintenance threshold slip count 1-(5)-255 • mt = Maintenance threshold time default = 24H • oc = Out-of-service threshold slip count 1-(30)-255 • ot = Out-of-service threshold time default = 1H Threshold times must be one of the following: nnnnT, nnnS, nnnM, or nnH Where: • nnnn is an integer • T,S,M, or H show the increments of use The time values are as follows: • nnnnT = 20 millisecond increments (nnnn = 20-5000) • nnnS = 1 second increments (nnn = 1-240) • nnnM = 1 minute increments (nnn = 1-240) • nnH = 1 hour increments (nn = 1-24)	dti/pa-14

Prompt	Response	Comment	Pack/Rel
	NS mt dt ct ot	Slip count maintenance threshold. Where: • NS = Error count values are in the range : 1-(20)-255 • mt = Maintenance threshold time (MNT) (default = 30S) • dt = No new data calls threshold time (NNDC) (default = 10S) • ct = No new calls threshold time (NNC) (default = 10S) • ot = Out-of-service threshold time (OOS) (default = 6S) Response options for mt, dt, ct, ot: Threshold time entries end in one of the following letters: T, S, M, H. These letters indicate the time increment to be used. Reponse options for mt, dt, ct and ot are as follows: • 20T–5000T = 20 millisecond increments • 1S–240S = 1 second increments • 1M–240M = 1 minute increments • 1H–24H = 1 hour increments Important note: The following requirements must be met: mt = >dt = >ct = >ot	dti/pr-14
SOS	abcd	Special Operator Signal. For information about your response options, refer to “Signaling category assignment and modification” on page 773.	abcd-14
	N	Undefined Prompted when OPRC = N.	
SRAR	(NO) YES	Slip Rate Automatic Recovery This prompt appears in Release 14 and earlier only.	dti/pr-14

LD 73

Prompt	Response	Comment	Pack/Rel
SREF		Secondary Reference. Prompted when PREF is not free-run.	dti/pra-14
	0-159	Source loop for clock controller (non-Option 11 format)	
	I s c	Source from a Basic Rate Interface Trunk (BRIT) S/T Interface Line Card (SILC) (non-Option 11 format) Where: • I = 0-156 (loop # must be 0 or a multiple of 4) • s = 0-1 • cc = 0-15 The SILC must have DSL 0 defined as a trunk and CLOK = YES in LD 27.	
	1-9	Source card for clock controller (Option 11 format) If source is a Basic Rate Interface Trunk (BRIT) S/T Interface Line Card (SILC) then the SILC must have DSL 0 defined as a trunk and CLOK = YES in LD 27. The loop or card must already be defined in LD 17 at the DLOP prompt. Precede with X to remove.	
	<cr>	Free-running mode	
SREF CK0	loop	Secondary Reference DTI/PRI loop for Clock controller zero (non-Option 11). The response is the loop from which the clock controller will be deriving its secondary clock pulses.	dti/pra-14
	card	Secondary Reference card for Clock controller zero (Option 11) If a BRI trunk (BRIT) is the reference source then the SILC must have DSL 0 defined as a trunk and CLOK = YES in LD 27.	
	<cr>	Secondary Reference remains at current setting	
	X	Secondary Reference reverts to the free-run mode	

Prompt	Response	Comment	Pack/Rel
SREF CK1	loop	Secondary Reference DTI/PRI loop for Clock controller one. The response is the loop from which the clock controller will be deriving its secondary clock pulses. (non-Option 11)	dti/pra-14
	<cr>	Secondary Reference remains at current setting	
	X	Secondary Reference reverts to the free-run mode The clock controller prompts will only appear for clocks which are valid for the machine type being configured. The prompts will only appear if the system is in a valid state for the definition of the DTI2/PRI2/BRIT clock controller data (i.e., the 1.5 Mb/s DTI clock references must be unused or in a free-run mode).	
SRGT	1-(15)-127	Slip Rate Guard Time in minutes (Release 14 and earlier) Before monitoring begins for a noticeable improvement in the slip rate, the SRGT prompt measures the number of minutes that trunks stay out-of-service.	dti/pra-14
SRIM	(1)-127	Slip Rate Improvement Monitoring time (the amount of time in minutes before returning trunks either to service or to the SRGT state) After the tracking or non-tracking mode frame slippage out-of-service threshold is exceeded, the slip rate is monitored for improvement. If the non-tracking maintenance threshold exceeds SRMM or fewer times in the duration of this timer, then the trunks are returned to service. Otherwise, this timer is reset and monitoring continues.	dti/pra-15
SRMM	1-(2)-127	Slip Rate Maintenance Maximum Number of times the Slip Rate exceeds the maintenance limit while waiting for Slip Rate improvement during the time window specified at the SRIM prompt.	dti/pra-14

LD 73

Prompt	Response	Comment	Pack/Rel
SRNT	1-(15)-1024	1-(3)-1024 Slip Rate Non-Tracking mode maintenance and out-of-service thresholds These are frame slip rate thresholds for the non-tracking mode. The first value is the maintenance threshold in seconds. The second value is the out-of-service threshold in seconds, the amount of time in which 10 slips occur.	dti/pr-14
SRTK	1-(5)-24	1-(30)-3600 Slip Rate Tracking mode maintenance (in hours) and out-of-service thresholds (per hour) These are frame slip rate thresholds for the tracking mode. The first value is the maintenance threshold or the elapsed time (in hours) between frame slips. The default is 1 slip in 5 hours. The second value is the out-of-service threshold or the number of slips per hour. The default is 30 slips in 1 hour.	dti/pr-14
SZNI	(NO) YES	PSTN incoming seizure during lockout of MFAS and far-end fault states allowed	
TGLR	(NO) YES	Toggle reserves bits in Frame 0, Timeslot 0. Prompted for JDMI loops.	jdmi-14
TIME	1-(2)-15 1-(8)-15	Pulse on time Pulse off time	
	(100)-150	Time for EOSF (S) (in milliseconds)	abcd-14
	64-(128)-192	Time of OPCA (R) pulse (in milliseconds)	abcd-14
	10-(100)-630	Time of Register Recall signal timer {RRC (S)} in milliseconds. This defines the flash duration for 2.0 Mbit DTI trunks.	emct-20
	64-(128)-192	Length of BURS (R) pulse (in milliseconds)	abcd-14

Prompt	Response	Comment	Pack/Rel
	xxxx yyyy	abcd-14 Minimum and maximum time range for OPRS (R) (in milliseconds). Where: • xxxx = 8-(48)-2040 • yyyy = xxxx-(128)-2040	abcd-14
	50 80 90 (150) 800	Delay time for the SEZA signal (in milliseconds)	abcd-14
	20-(140)-500 20-(290)-500	Minimum and maximum length of WNKS (R) pulse (in milliseconds).	abcd-14
	64-(128)-192	Length of BURS (R) pulse (in milliseconds)	abcd-14
	40-(240)-480	Maximum time METR signal can be on (in milliseconds)	
	(0)-800	Milliseconds Prompted when the abcd bits entered in response to the CLFR (S) prompt are different from the abcd bits of the IDLE signal	abcd-14
	100-(150) 300	Time value is stored (in multiples of 10 milliseconds)	
	150	Timer value in milliseconds is fixed	
	(64)-320 64-(256)-320	Length of EOS (R) pulse (in increments of 8 milliseconds)	
	96-(128)-320 96-(256)-320	Time (stored in multiples of 8 milliseconds)	
	10-(220)-630	Time for P WNKS (S) (in increments of 10ms)	abcd-18
	16-(96)-1000 16-(160)-1000	Minimum and maximum acceptable pulse duration (in increments of 8 ms)	

LD 73

Prompt	Response	Comment	Pack/Rel
	10-(150)-630	Prompted for pulsed signals (in increments of 10 ms)	
	10-(600)-2000	Prompted for pulsed signals (in increments of 10 ms)	
	10-(600)-2000	Pulse length (in increments of 10 milliseconds)	
	16-(296)-2000 16-(960)-2000	Minimum and maximum acceptable pulse duration (in increments of 8 milliseconds)	
	10-(150)-630	Only prompted for pulsed signals. Pulse length (in increments of 10 milliseconds)	
	16-(136)-504 16-(288)-504	Minimum and maximum length of P WNKS (R) pulse (in increments of 8 milliseconds)	abcd-18
	16-(56)-1000 16-(296)-1000	Only prompted for pulsed signals. Pulse length (in increments of 8 milliseconds)	
	16-(296)-2000 16-(960)-2000	Only prompted for pulsed signals. Pulse length (in increments of 8 milliseconds)	
	10-(600)-2000	Only prompted for pulsed signals. Pulse length (in increments of 10 milliseconds)	
	16-(296)-2000 16-(960)-2000	Only prompted for pulsed signals. Pulse length (in increments of 8 milliseconds)	
TNLS		Terminal Number List (for the PRT command)	dti/pr-14
	(NO)	Will not print the list of trunk TNs using the requested table (pad category or SICA) following the table number.	
	YES	Will print the list of trunk TNs using the requested table (pad category or SICA) following the table number.	

Prompt	Response	Comment	Pack/Rel
TOLL	x y	Toll call pad data on line card. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x = 0 - 31 and y = 8-39. The values entered are pad values to be used for the 500/2500 TN on the line card connected to the DT12 call. Valid codes and their corresponding dB values are listed in Table 14 on page 772.	chtl-21
TOLT	x y	Toll call pad data on DT12 card. Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	chtl-21
TRC	x y	Transmission Compensated (Analog TIE). Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	dti/pa-14
	<cr>	Initial values	
TRSH	0-15	Threshold set Enter this number in LD 17 when defining a DTI/PRI loop. Use X0-15 to remove TRSH. Note: The LD 17 DLOP/TRSH associated with this LD 73 TRSH must be removed first. Precede with X to remove.	dti/pa-19
TYPE		Type of data block	dti/pa-14
	BRIL	Basic Rate Interface Line data block with Basic Rate Interface Line Application (BRIL) package 235	
	BRIT	Basic Rate Interface Trunk data block with Integrated Service Digital Network BRI Trunk Access (BRIT) package 233.	
	DDB	1.5 Mb/s DTI data block	dti/pa-14
	DTI	1.5 Mb/s DTI with International 1.5/ 2.0 Mb/S Gateway (GPRI) package 167 data block	grpi-18
	DTI2	2.0 Mb/s DTI data block	
	JDMI	Japan Digital Multiplex Interface data block (not supported on Option 11)	jdmi-12

LD 73

Prompt	Response	Comment	Pack/Rel
	PRI	1.5 Mb/s PRI data block with International 1.5/ 2.0 Mb/s Gateway (GPRI) package 167	gpri-18
	PRI2	2.0 Mb/s PRI data block	
UCFS	abcd	Unequipped Channel Fault Signal - ABCD bits to be sent on unequipped channel. The default is 1101. Allowable input for each of the four fields is 0 or 1. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	
VNL	x y	Via Net Loss (Analog TIE). Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	dti/pr-14
	<cr>	Initial values	
WNKS (R)	abcd	Wink Start. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	If WNKS (R) not required	
WNKS (S)	abcd	Wink Start. For information about your response options, refer to "Signaling category assignment and modification" on page 773.	abcd-14
	N	Prompted in Release 17 and earlier. If WNKS (S) not required	
XEM	x y	Extended Peripheral Equipment E&M Trunk (Analog TIE trunk). Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	gpri-18
	<cr>	Initial values	

Prompt	Response	Comment	Pack/Rel
XUT	x y	Extended Peripheral Equipment Universal Trunk (Analog CO trunk). Where x = Rx code (receive) and y = Tx code (transmit). Response range for x and y is: 0-26. See "Prompts and responses for setting pad values" on page 763 for more information about x and y codes.	gpri-18
	<cr>	Initial values	